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Trans. of Monatshefte für Chemie (Austria) 1954,
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DESCRIPTORS: *Molybdenum alloys, *Silicon alloys,
*Carbon alloys, Molybdenum compounds, Silicates,
Silicon compounds, Carbides, *Carborundum, *Phase
studies, Crystal structure, Calorimetry, Melting.
X-ray diffraction analysis, Microchemistry.

The topics discussed include the results of a new in-
vestigation of the limiting system Mo-C; the determina-
tion of the structure of MoC; a thermal investigation of
Si-C; the establishment of the ternary system Si-C by
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I. Nowotny, H.
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Trans. of Acta Chimica [Hungary] 1959, v. 18,
p. 35-44.

DESCRIPTORS: *Carbides, *Silicides, *Borides, Heat
tolerance, Melting, Crystallization, Crystal structure,
Transition elements.

The present paper deals with the crystal chemistry of
high melting carbides, silicides and borides. UC and
mixtures of UC together with TiC, ZrC, VC, NbC,
TaC, Cr₃C₂, Mo₂C, WC and TiC were prepared by
the method of hot-pressing. It was found that UC forms
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DESCRIPTORS: *Chromium, *Silicon, *Boron, Alloys,
Phase studies, Crystal structure.

The structure of the ternary system chromium-silicon-
boron is determined for a section of 1300°C of hot
pressed samples. In addition to the well known binary
silicide and boronide-phases (their existence is con-
firmed) appears the ternary phase D Eg as the dominant
ing crystal with the approximate composition $\text{Cr}_5\text{Si}_3\text{B}$.
 $\text{Cr}_5\text{Si}_3(\text{T } 2)$ absorb considerable amounts of Cr_5Si_3 .
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